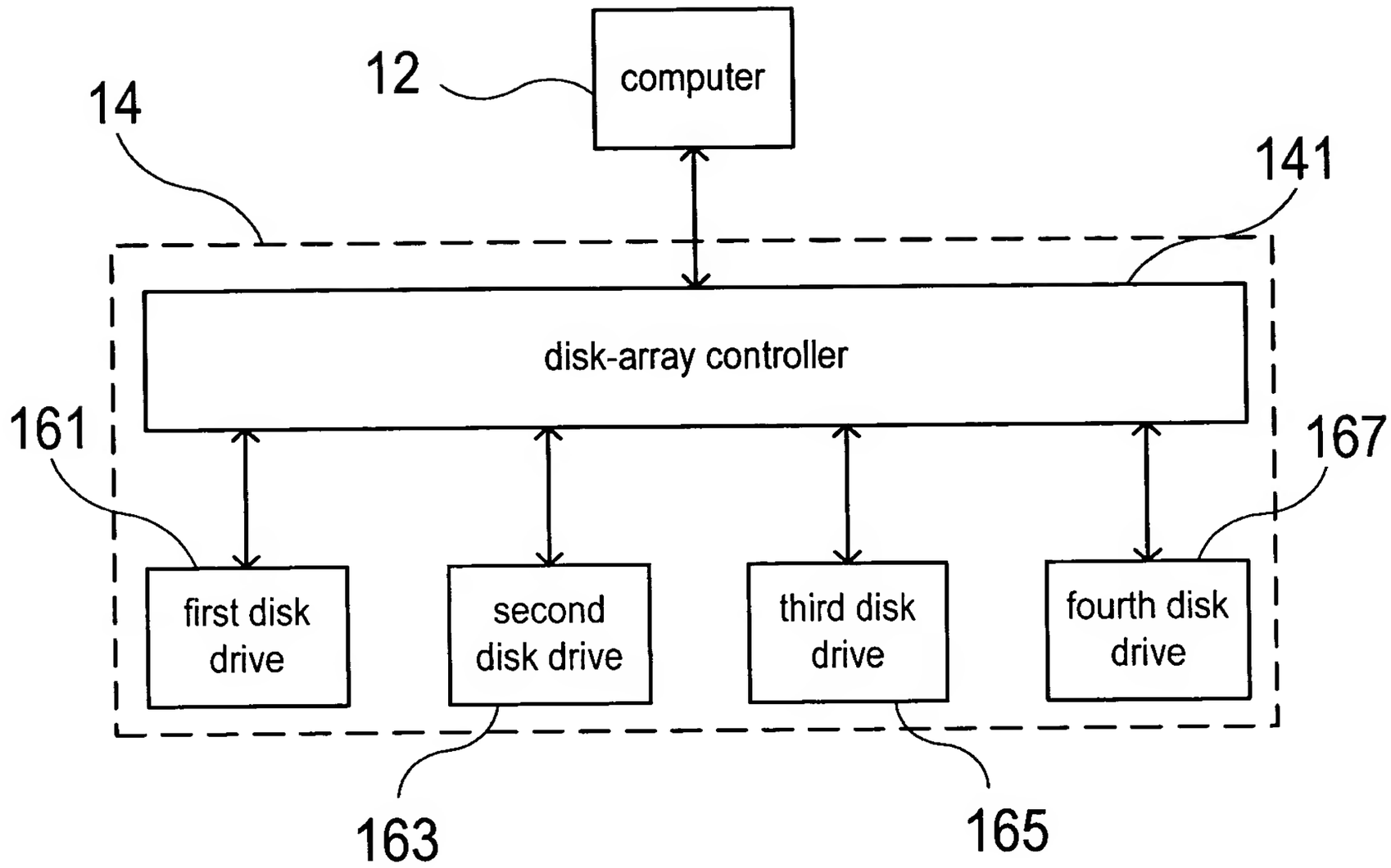

FIG. 1
（PRIOR ART）

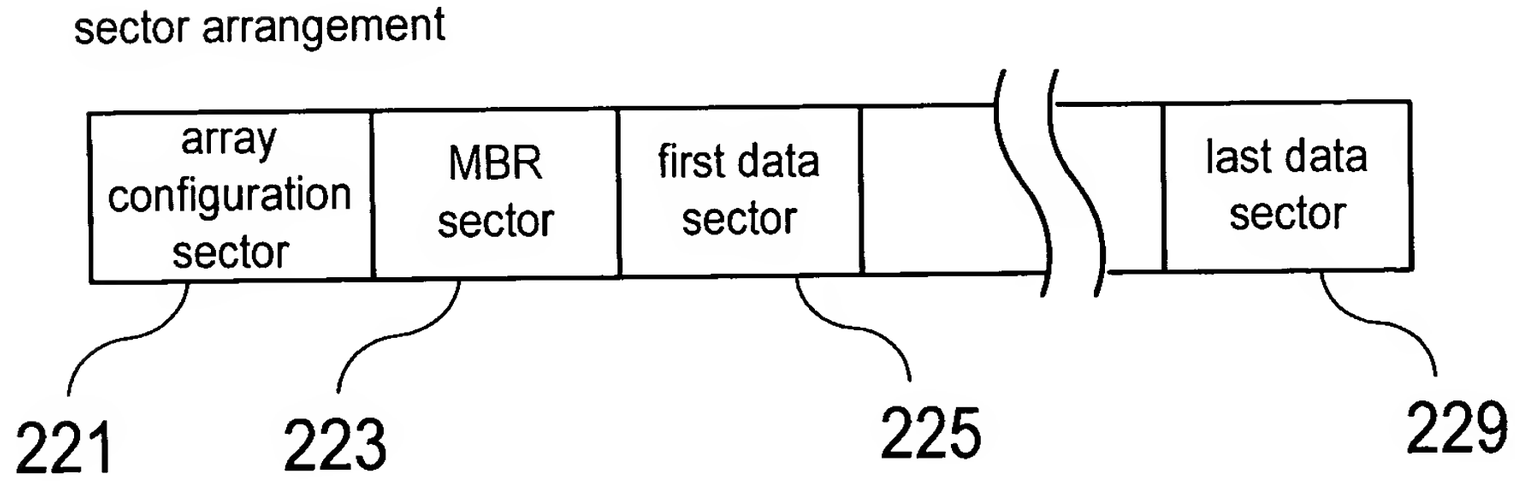

FIG. 2
（PRIOR ART）

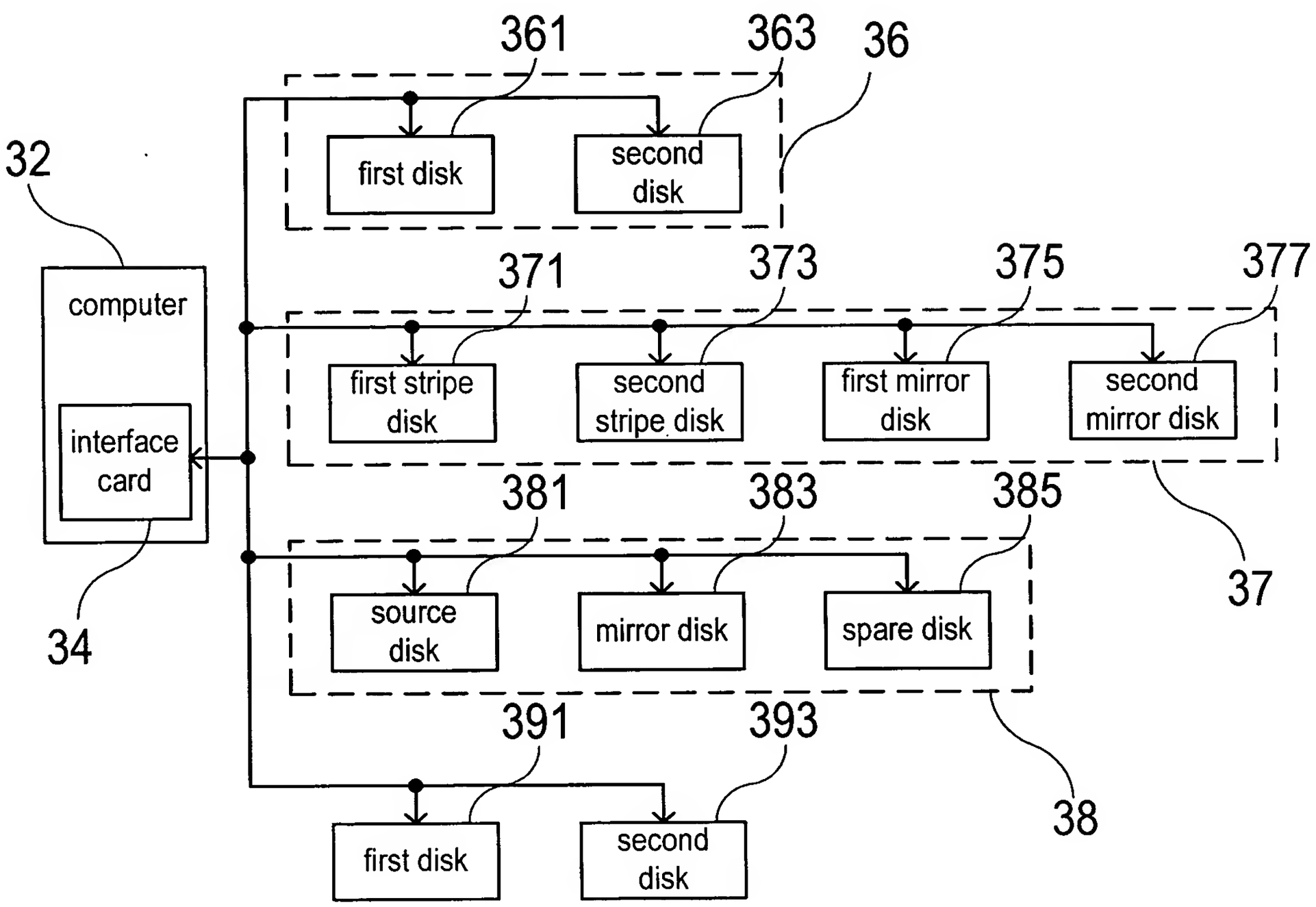
361
363
36
first disk
second disk
32
computer
371
373
375
377
first stripe disk
second stripe disk
first mirror disk
second mirror disk
interface card
381
383
385
37
source disk
mirror disk
spare disk
34
391
393
38
first disk
second disk

FIG. 3

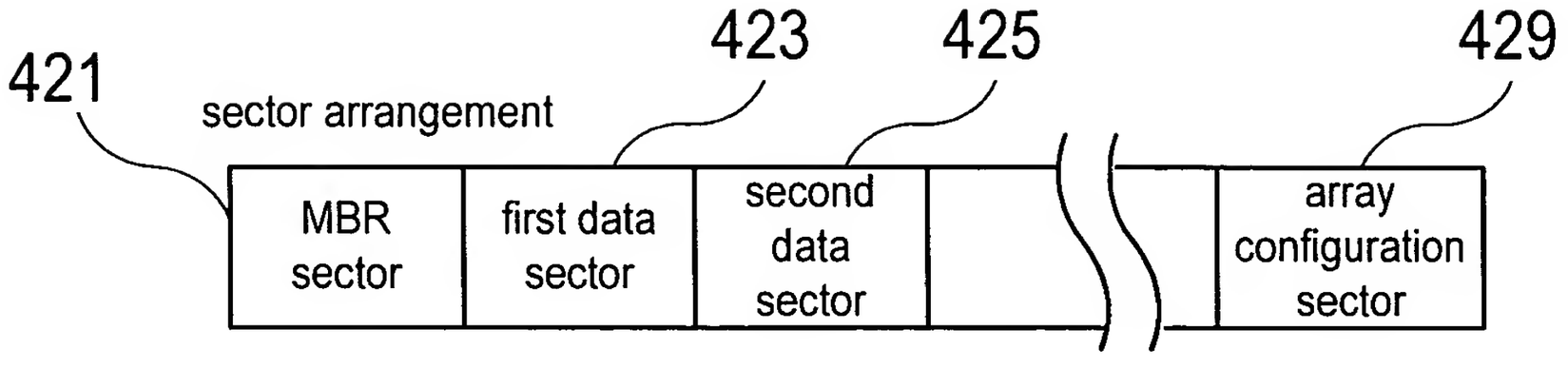

FIG. 4

offset	type	meaning
0	WORD	array signature
2	BYTE	version identification
3	15bytes	array information/disk information
18	DWORD	serial check sum of array disk 0
22	DWORD	serial check sum of array disk 1
26	DWORD	serial check sum of array disk 2
30	DWORD	serial check sum of array disk 3
34	DWORD	serial check sum of array disk 4
38	DWORD	serial check sum of array disk 5
42	DWORD	serial check sum of array disk 6
46	DWORD	serial check sum of array disk 7
50	BYTE	serial check sum of array configuration

FIG. 5

array information

bit	array type	meaning	
0-2	Raid 0	disk number	
	Raid 1	spare disk number	
	Raid 0+1	stripe disk number	
	Span	disk number	
3	all	array broken flag	
4-7	Raid 0 - Raid 7	0-7	represent-ative value
	Span	8	
	Raid 0+1	9	
8-10	all	array serial number	
11-14	including stripe disk	stripe size	
15-46	all	available capacity	
47-63	all	reserved bit	

FIG. 6

disk information

bit	array type	meaning	
0	all	boot	
1	all	enhanced	
2-33	all	serial check sum	
34-38	Raid 0	sequence of stripe disk	sequence/ function field
34-35	Raid 1	source, mirror, or spare disk	
36	Raid 1	synchronization	
34-36	Raid 0+1	sequence of stripe disk	
37	Raid 0+1	source array or mirror array	
38	Raid 0+1	synchronization	
34-36	Span	sequence of disk	
39-55	all	reserved bit	

FIG. 7